

## ABSTRACT

The minimization or elimination of swelling in lithium cells containing  $\text{CF}_x$  as part of the cathode electrode and discharged under high rate applications is described. When  $\text{CF}_x$  materials are synthesized from fibrous carbonaceous materials, in comparison to petroleum coke, cell swelling is greatly reduced, and in some cases eliminated. Preferred precursors are carbon fibers and MCMB.

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